

FIG. 2

3/34

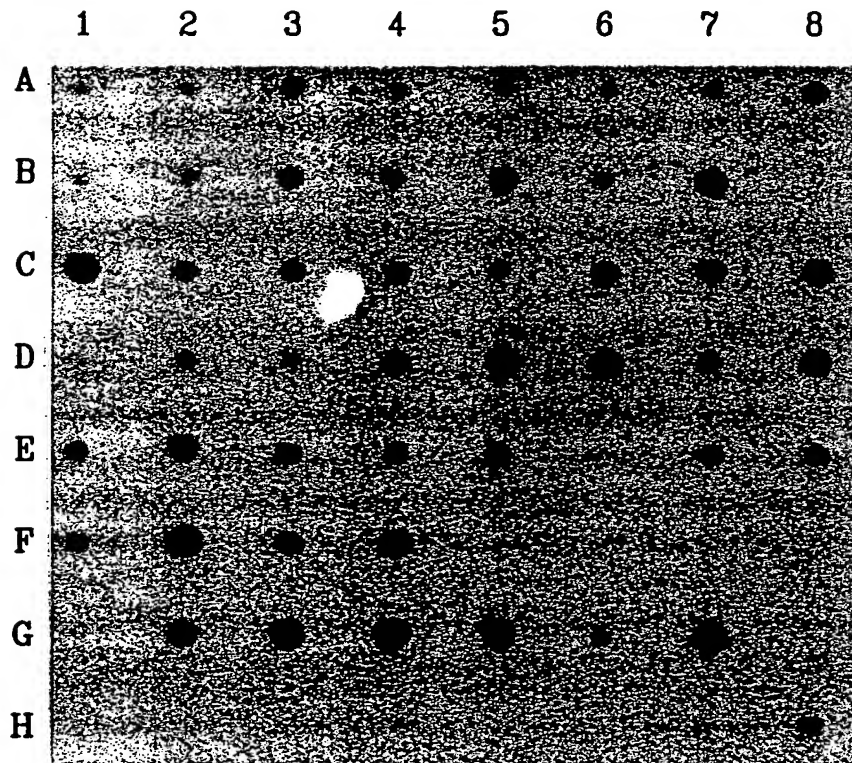


FIG. 3

4/34

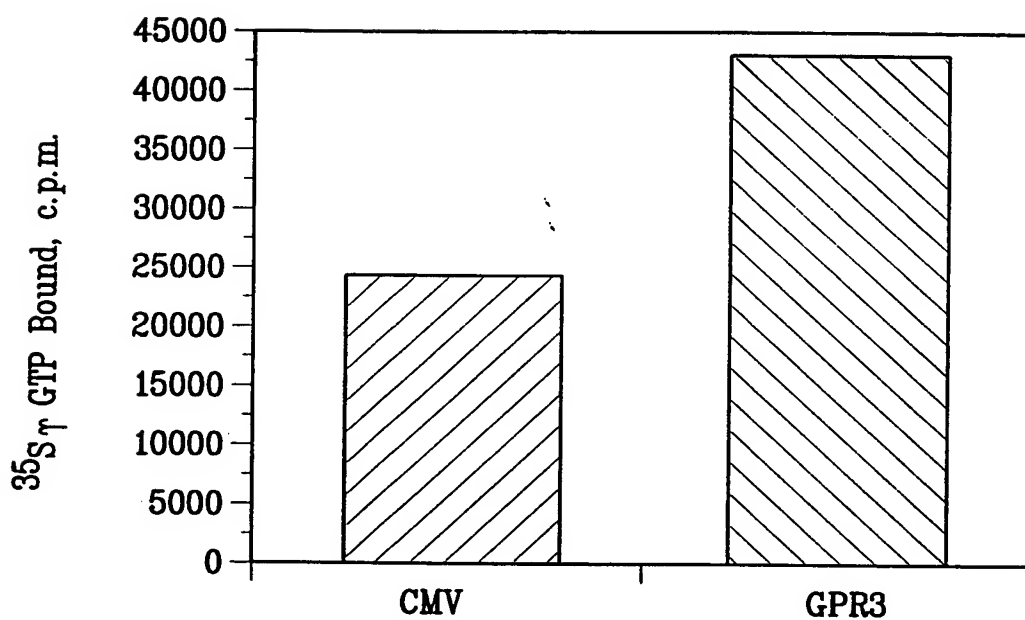


FIG. 4

Figure 5A

	10	30	40																																							
1	M	M	W	G	A	G	S	SEQ. ID. NO.: 46																																		
1	M	N	A	S	A	A	S	L	N	D	S	Q	V	V	V	V	A	A	E	G	A	A	A	A	T	A	A	G	G	P	D	T	G	E	W	G	P	P	A	SEQ. ID. NO.: 47		
1	M	N	E	D	L	K	V	N	L	S	G	L	SEQ. ID. NO.: 48																													
	50	60	70	80																																						
8	P	L	A	W	L	S	I	A	G	S	G	N	V	N	V	S	S	V	G	P	A	E	G	P	T	G	P	A	A	P	L	P	S	P	K	A	W	D	V	V	L	SEQ. ID. NO.: 46
41	A	A	A	-	L	G	A	G	G	G	A	N	G	S	L	E	L	S	S	Q	L	S	A	G	P	P	G	L	L	L	P	A	V	N	P	W	D	V	L	L	SEQ. ID. NO.: 47	
13	P	R	D	Y	L	D	A	A	A	E	N	I	S	A	A	V	S	S	R	V	P	A	V	E	P	E	P	E	L	-	V	N	P	W	D	I	V	L	SEQ. ID. NO.: 48			
	90	100	110	120																																						
48	C	I	S	G	T	L	V	S	C	E	N	A	L	V	V	A	I	I	V	G	T	P	A	F	R	A	P	M	F	L	L	V	G	S	L	A	V	A	D	L	SEQ. ID. NO.: 46	
80	C	V	S	G	T	V	I	A	G	E	N	A	L	V	V	A	L	I	A	S	T	P	A	L	R	T	P	M	F	V	L	V	G	S	L	A	T	A	D	L	SEQ. ID. NO.: 47	
52	C	T	S	G	T	L	I	S	C	E	N	A	I	V	V	L	I	I	F	H	N	P	S	L	R	A	P	M	F	L	L	I	G	S	L	A	L	A	D	L	SEQ. ID. NO.: 48	
	130	140	150	160																																						
88	L	A	G	L	G	L	V	L	H	F	A	A	V	F	C	I	G	S	A	E	M	S	L	V	L	V	G	V	L	A	M	A	F	T	A	S	I	G	S	L	SEQ. ID. NO.: 46	
120	L	A	G	C	G	L	I	L	H	F	V	F	Q	Y	L	V	P	S	E	T	V	S	L	L	T	V	G	F	L	V	A	S	F	A	A	S	V	S	S	L	SEQ. ID. NO.: 47	
92	L	A	G	I	G	L	I	T	N	F	V	F	A	Y	L	L	Q	S	E	A	T	K	L	V	T	I	G	L	I	V	A	S	F	S	A	S	V	C	S	L	SEQ. ID. NO.: 48	
	170	180	190	200																																						
128	L	A	I	T	V	D	R	Y	L	S	L	Y	N	A	L	T	Y	Y	S	E	T	T	V	T	R	T	Y	V	M	L	A	L	V	W	G	A	L	G	L	SEQ. ID. NO.: 46		
160	L	A	I	T	V	D	R	Y	L	S	L	Y	N	A	L	T	Y	Y	S	R	R	T	L	L	G	V	H	L	L	A	A	T	W	T	V	S	L	G	L	SEQ. ID. NO.: 47		
132	L	A	I	T	V	D	R	Y	L	S	L	Y	Y	A	L	T	Y	H	S	E	R	T	V	T	F	T	Y	V	M	L	V	M	L	W	G	T	S	I	C	L	SEQ. ID. NO.: 48	
	210	220	230	240																																						
168	G	L	P	V	L	A	W	N	C	L	D	G	L	T	T	C	G	V	V	Y	P	L	S	K	N	H	L	V	V	L	A	I	A	F	F	M	V	F	G	SEQ. ID. NO.: 46		
200	G	L	P	V	L	G	W	N	C	L	A	E	R	A	A	C	S	V	V	R	P	L	A	R	S	H	V	A	L	L	S	A	A	F	F	M	V	F	G	SEQ. ID. NO.: 47		
172	G	L	P	V	M	G	W	N	C	L	R	D	E	S	T	C	S	V	V	R	P	L	T	K	N	N	A	A	I	L	S	V	S	F	L	F	M	F	E	A	SEQ. ID. NO.: 48	
	250	260	270	280																																						
208	I	M	L	Q	L	Y	A	Q	I	C	R	I	V	C	R	H	A	Q	Q	I	A	L	Q	R	H	L	L	P	A	S	H	Y	V	A	T	R	K	G	I	A	SEQ. ID. NO.: 46	
240	I	M	L	H	L	Y	V	R	I	C	Q	V	V	W	R	H	A	H	Q	I	A	L	Q	Q	H	C	L	A	P	P	H	L	A	A	T	R	K	G	V	G	SEQ. ID. NO.: 47	
212	L	M	L	Q	L	Y	I	Q	I	C	K	I	V	M	R	H	A	H	Q	I	A	L	Q	H	H	F	L	A	T	S	H	Y	V	T	T	R	K	G	V	S	SEQ. ID. NO.: 48	
	290	300	310	320																																						
248	T	L	A	V	V	L	G	A	F	A	C	W	L	P	F	T	V	Y	C	L	L	G	D	A	H	S	P	P	L	Y	T	Y	L	T	L	P	A	T	SEQ. ID. NO.: 46			
280	T	L	A	V	V	L	G	T	F	G	A	S	W	L	P	F	A	I	Y	C	V	V	G	S	H	E	D	P	A	V	Y	T	Y	A	T	L	L	P	A	T	SEQ. ID. NO.: 47	
252	T	L	A	I	I	L	G	T	F	A	A	C	W	M	P	F	T	L	Y	S	L	I	A	D	Y	T	Y	P	S	I	Y	T	Y	A	T	L	L	P	A	T	SEQ. ID. NO.: 48	
	330	340	350	360																																						
288	Y	N	S	M	I	N	P	I	I	Y	A	F	R	N	Q	D	V	Q	K	V	L	W	A	V	C	C	C	S	S	S	K	I	P	F	R	S	R	S	P	SEQ. ID. NO.: 46		
320	Y	N	S	M	I	N	P	I	I	Y	A	F	R	N	Q	E	I	Q	R	A	L	M	L	L	L	C	G	C	F	Q	S	K	V	P	F	R	S	R	S	P	SEQ. ID. NO.: 47	
292	Y	N	S	I	I	N	P	V	I	Y	A	F	R	N	Q	E	I	Q	K	A	L	C	L	I	C	C	G	C	I	P	S	S	L	A	Q	R	A	R	S	P	SEQ. ID. NO.: 48	
	328	S	D	V	SEQ. ID. NO.: 46																																					
360	S	E	V	SEQ. ID. NO.: 47																																						
332	S	D	V	SEQ. ID. NO.: 48																																						

Figure 5B

	10	20	30	40					
1	MNESRWTEWRI	LNMS SGIV	NVSE RHSC	PLGF GHYSVVDVC	SEQ.ID.NO.: 19				
1	MNST - - - - -	LD - - - - -	GNQS SHPF	CLLA FG Y - - - - -	SEQ.ID.NO.: 15				
	50	60	70	80					
41	IFETV VIV	LLTFLII	- - - - -	AGNLTVIFVFHCAPLLH	SEQ.ID.NO.: 19				
22	-LETVNFC	LLLEVLI	IVFLT VLIIS	GNIIIVIFVFHCAPLLN	SEQ.ID.NO.: 15				
	90	100	110	120					
73	HYTTSYFIQT	MAYADLFVGVSC	LVPTLSLLH	YSTGVHESL	SEQ.ID.NO.: 19				
61	HH TTSYFIQT	MAYADLFVGVSC	VVPSSL	LLHHFPLPVEESL	SEQ.ID.NO.: 15				
	130	140	150	160					
113	TCQVFGYII	SVLKSVSMA	CLACISV	DRYLAI TKPLSYNQ	SEQ.ID.NO.: 19				
101	TCQIFGFVV	SVLKSVSMA	S LACIS	IDRYIAITKPLTYNTL	SEQ.ID.NO.: 15				
	170	180	190	200					
153	VTPCRLRI	CILIIWIIYS	CLIFLPSFF	GWGKPGYHGDIFEW	SEQ.ID.NO.: 19				
141	VTPWRRLRL	CIFLIWLYST	LVFLPSFE	HWGKPGYHGDVFW	SEQ.ID.NO.: 15				
	210	220	230	240					
193	CATSWLTS	AYFTGFIV	CLYAPAA	FVVCFTYFHI	FKICRQ	SEQ.ID.NO.: 19			
181	CAESWHT	DSYFTLFI	VMMLYAPAA	LI VCFYFN	I FRICQ	SEQ.ID.NO.: 15			
	250	260	270	280					
233	HTKEINDR	RRARFP	SH EVDSS	RE TGHS	PD RRYAMVLF	RITS	SEQ.ID.NO.: 19		
221	HTKDISE	RQARFS	SQSGETG	-EVQAC	PD KRYAMVLF	RITS	SEQ.ID.NO.: 15		
	290	300	310	320					
273	VFYMLWL	PIIYFL	LESS	RVLDN	NPTLS	FLTTWLAIS	NSFC	SEQ.ID.NO.: 19	
260	VFYI	LWLPII	YFL	LESS	TGHSN	RFA	SFLTTWLAIS	NSFC	SEQ.ID.NO.: 15
	330	340	350	360					
313	NCVIYSL	NSVFR	RLGL	RRLS	ETMCTSC	MCVKDQE	AQEP	- -	SEQ.ID.NO.: 19
300	NCVIYSL	NSVFR	QRLG	LKRLS	GAMCTSC	- - ASQTT	AND	BYT	SEQ.ID.NO.: 15
	370								
351	-KFRKRA	NSCS	I						SEQ.ID.NO.: 19
338	VRSKGPL	NGCH	I						SEQ.ID.NO.: 15

7/34

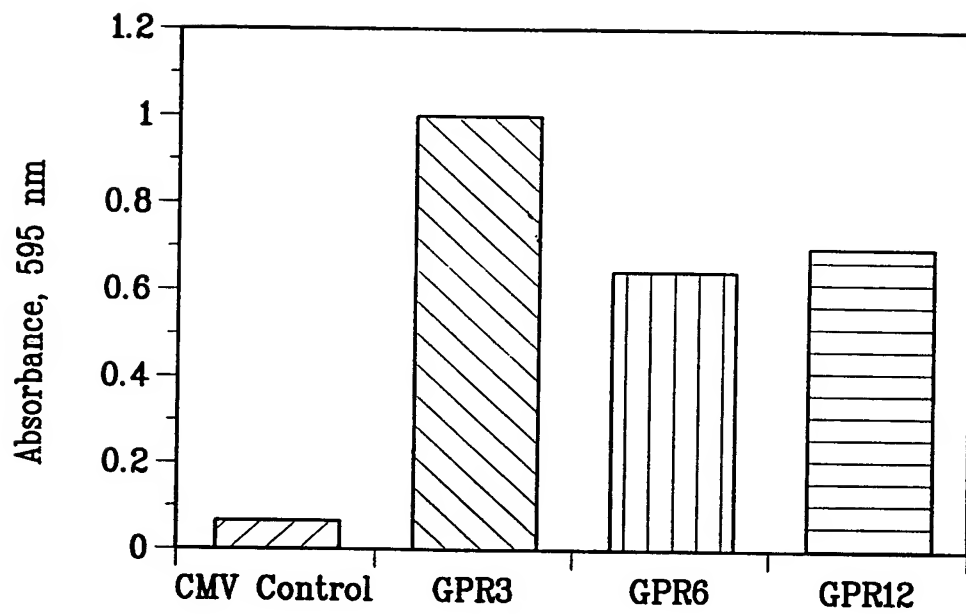


FIG. 6A

8/34

FIG. 6B

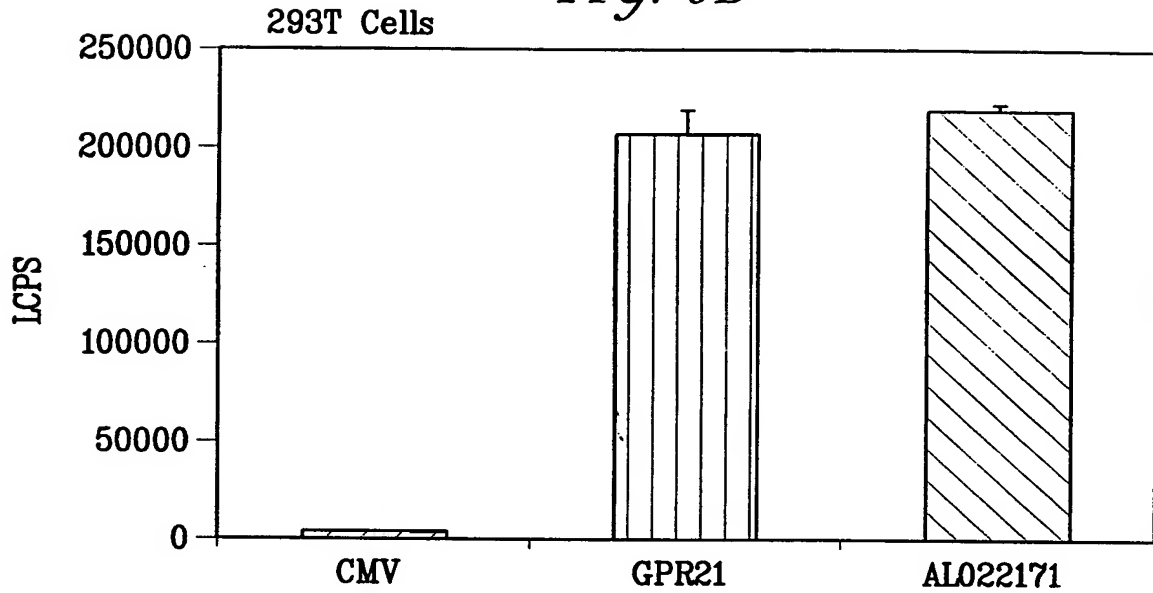
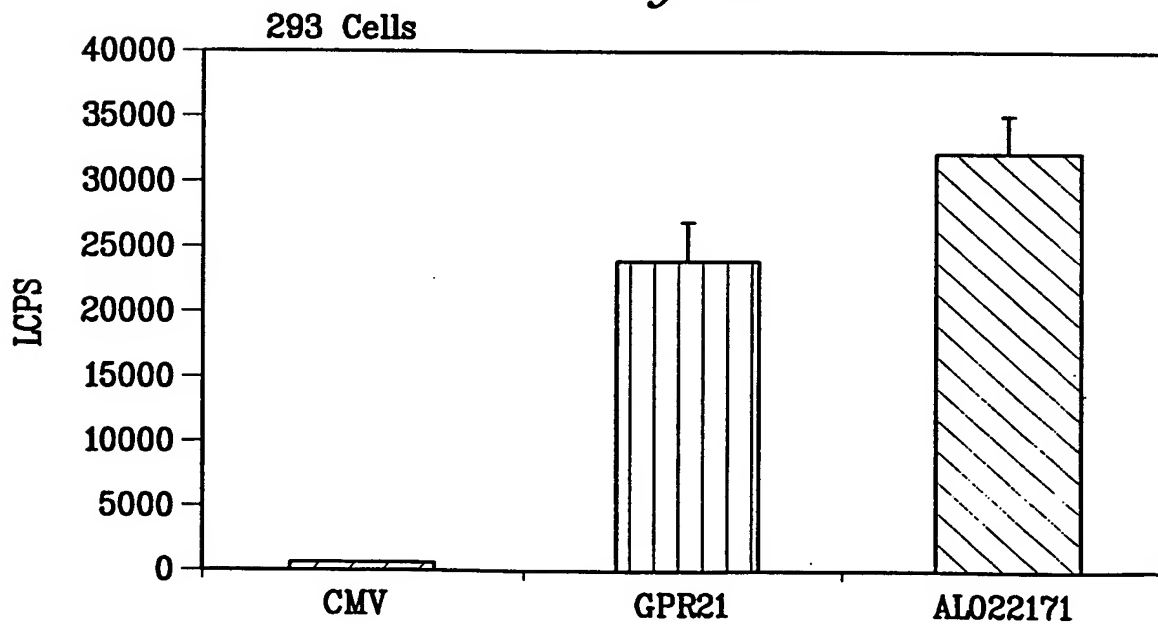
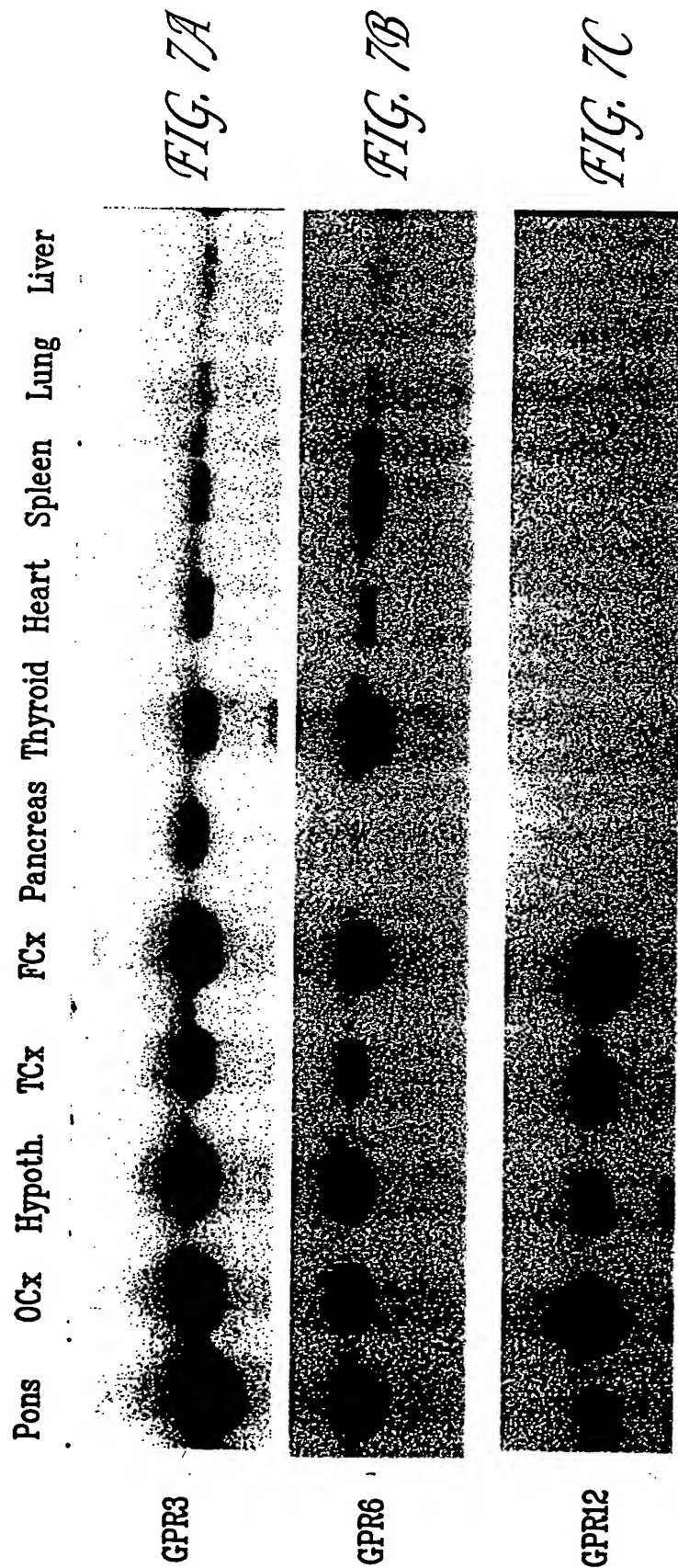


FIG. 6C



9/34



10/34

FIG. 8

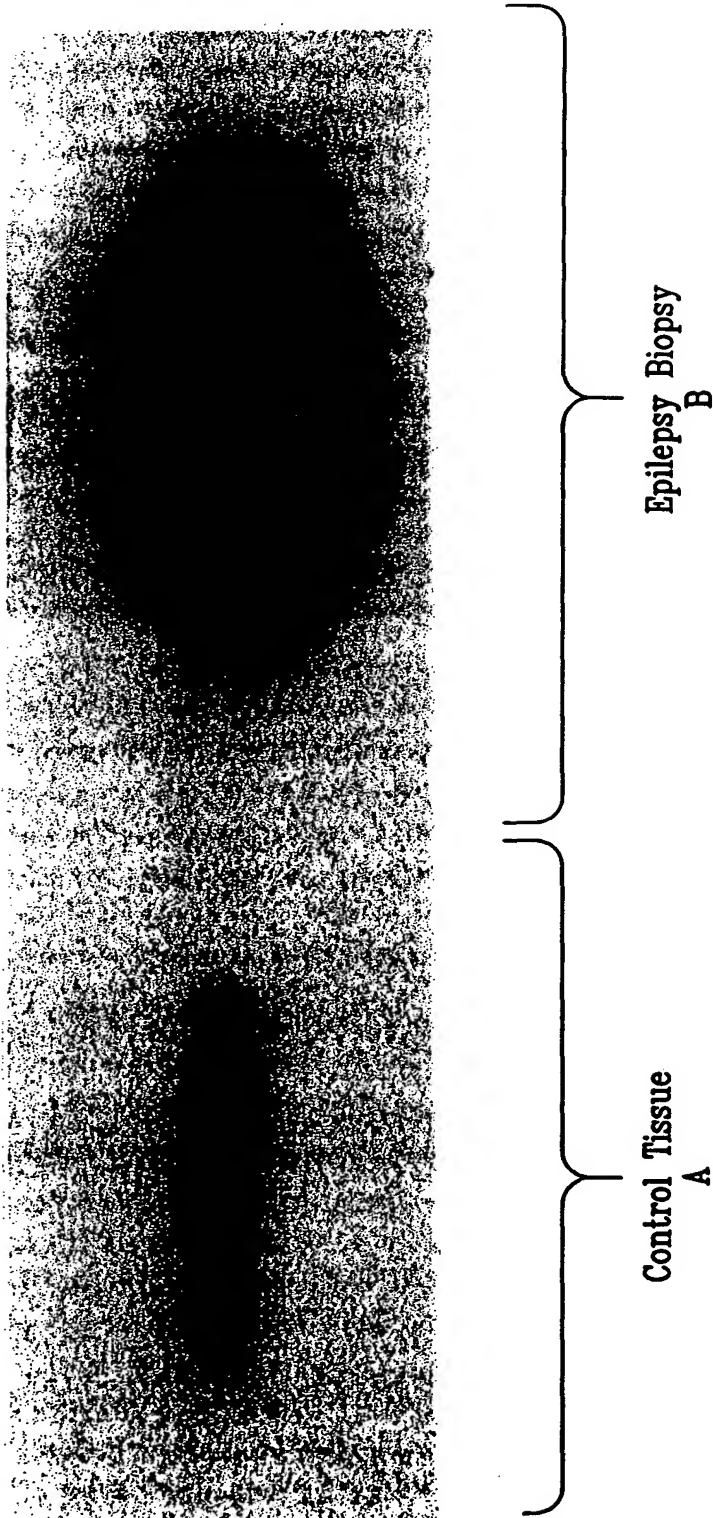
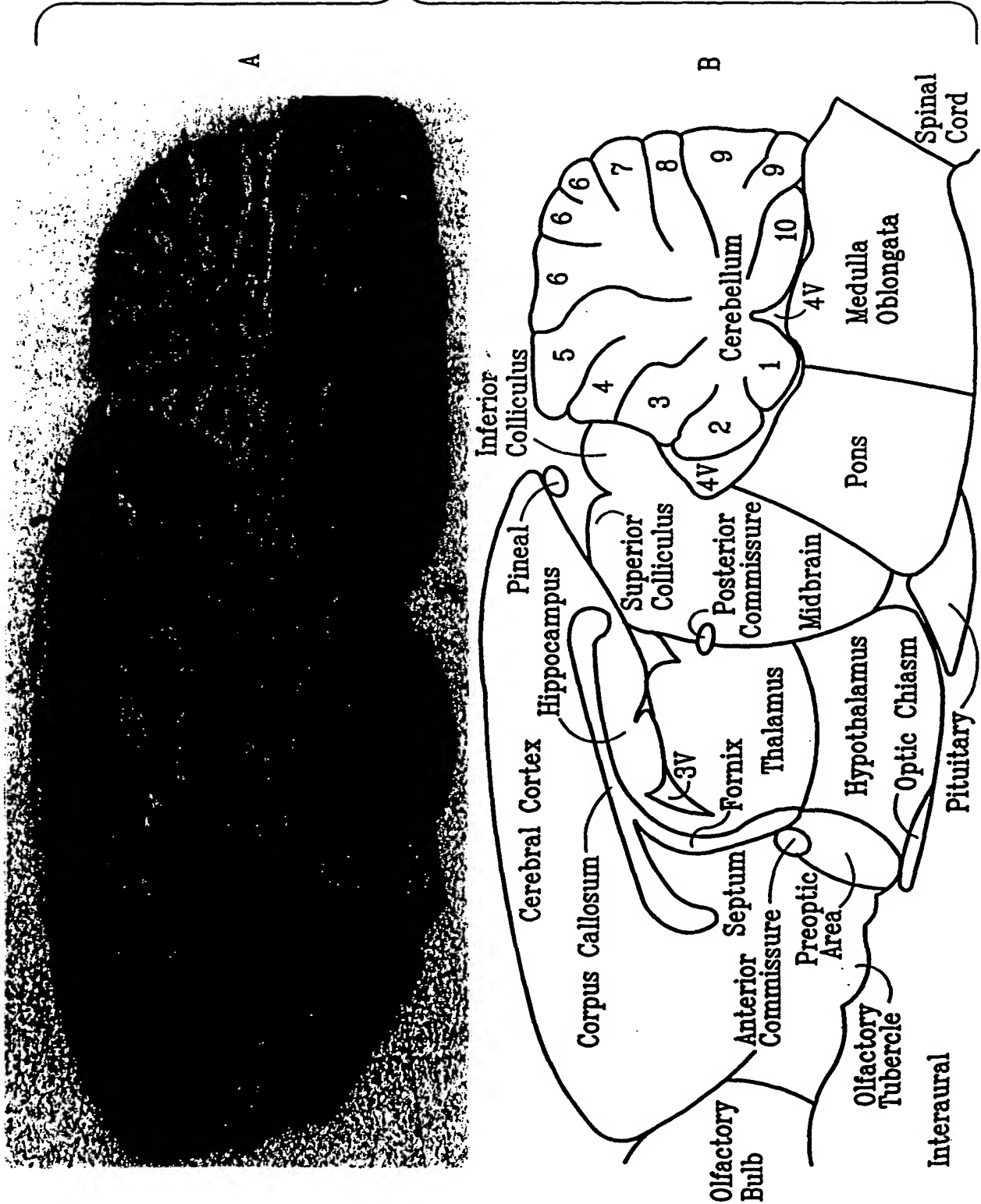


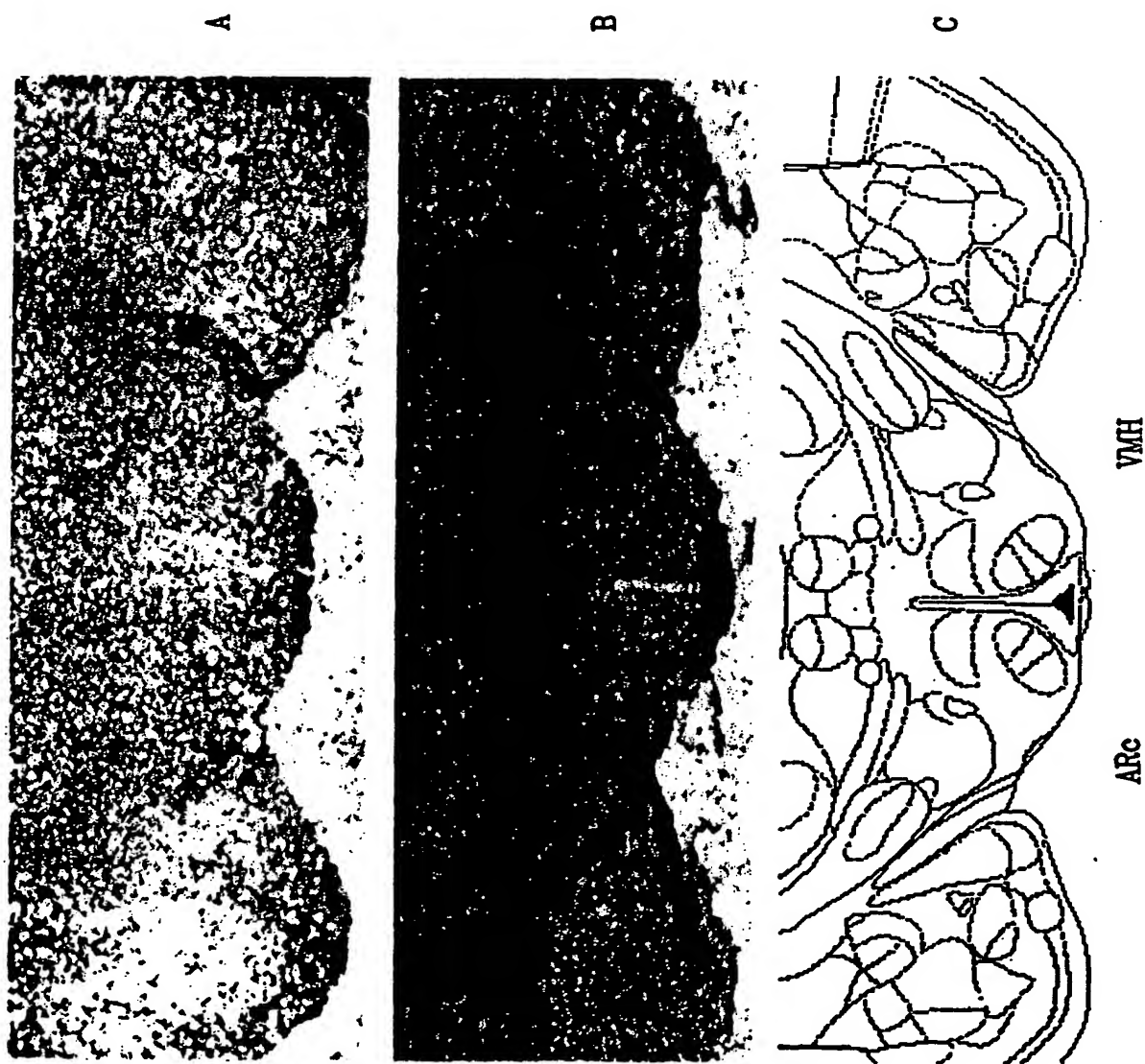
FIG. 9

11/34



12/34

FIG. 10



13/34

FIG. 11B



FIG. 11A



14/34

FIG. 11D

Hippocampus



Cortical Amygdaloid
Nucleus



FIG. 11C

Frontal Cortex



Lateral Septum

FIG. 11E

Lateral Septum

15/34

FIG. 11F

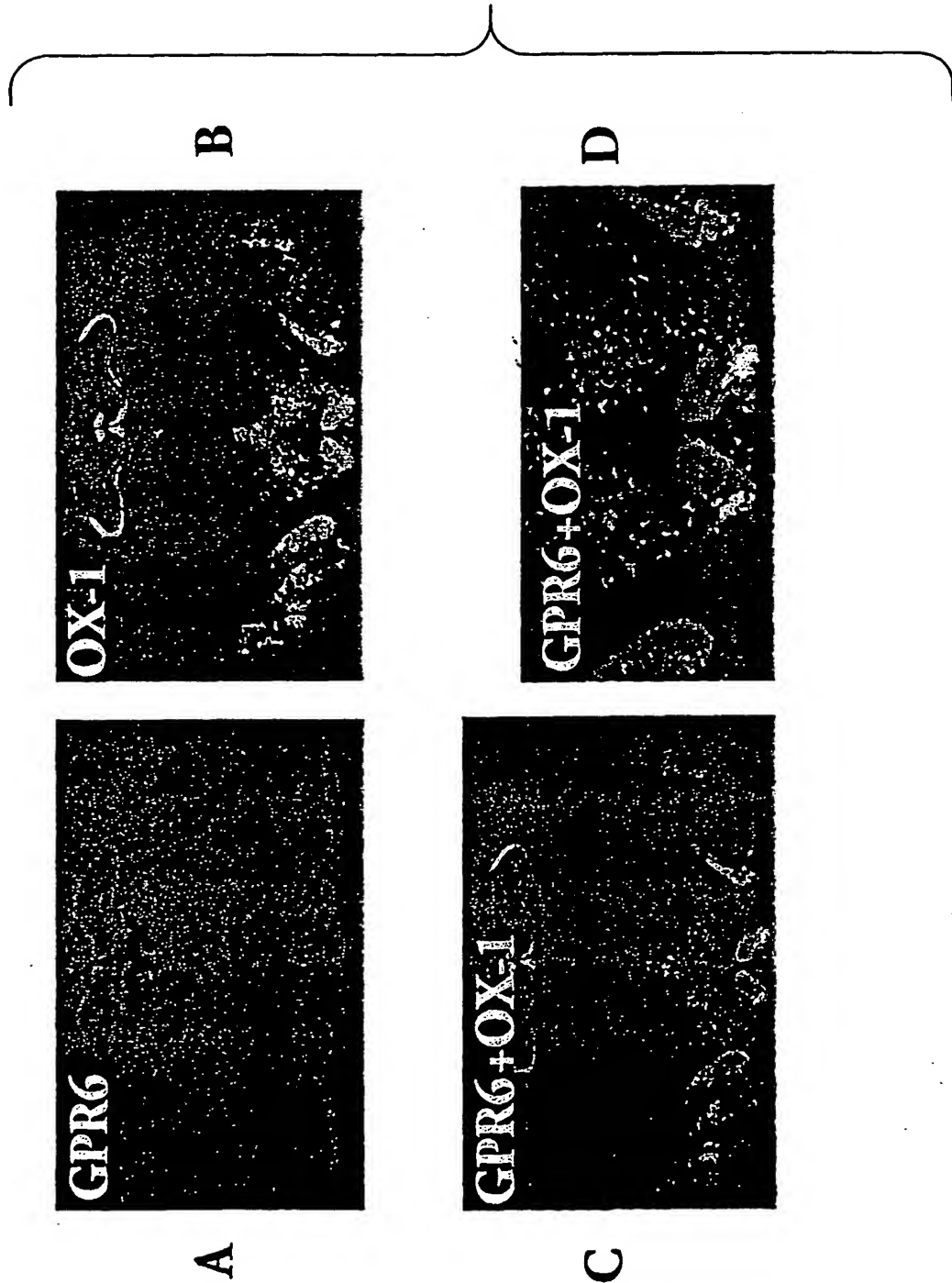


Substantia Nigra
(compacta)

VTA

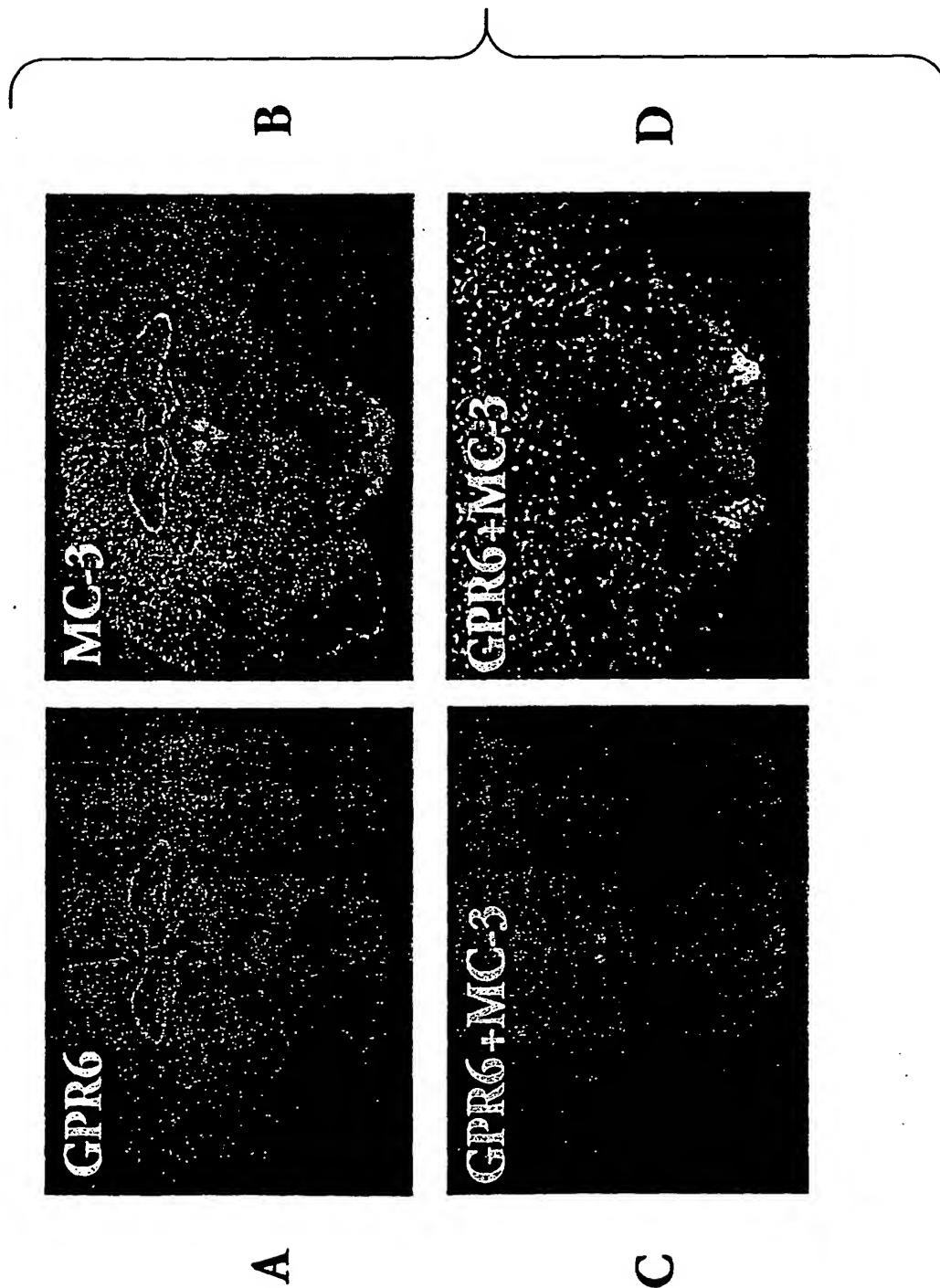
16/34

FIG. 12



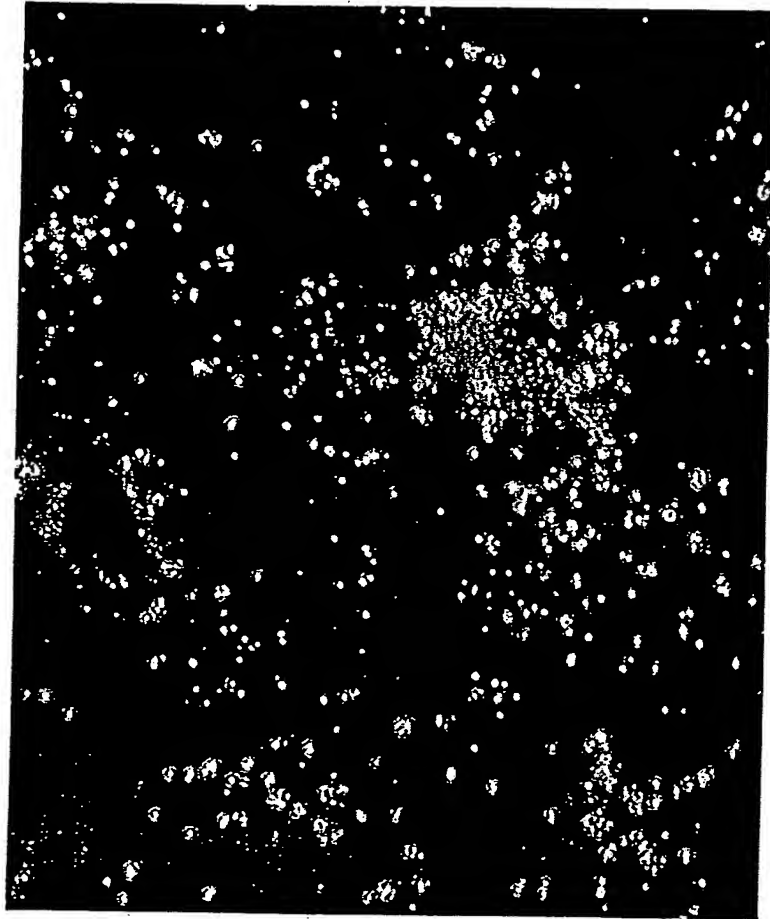
17/34

FIG. 13



18/34

FIG. 14



19/34

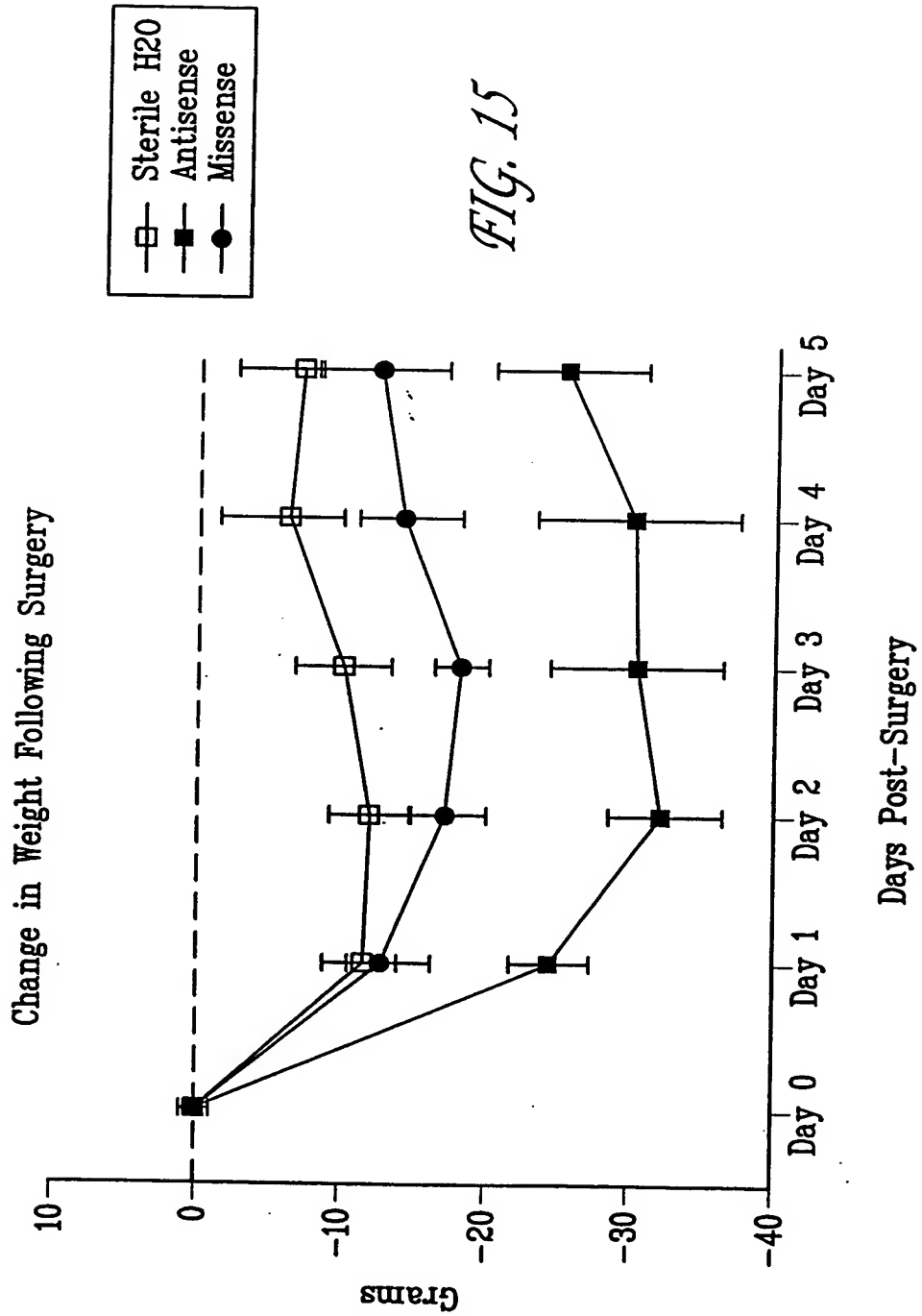
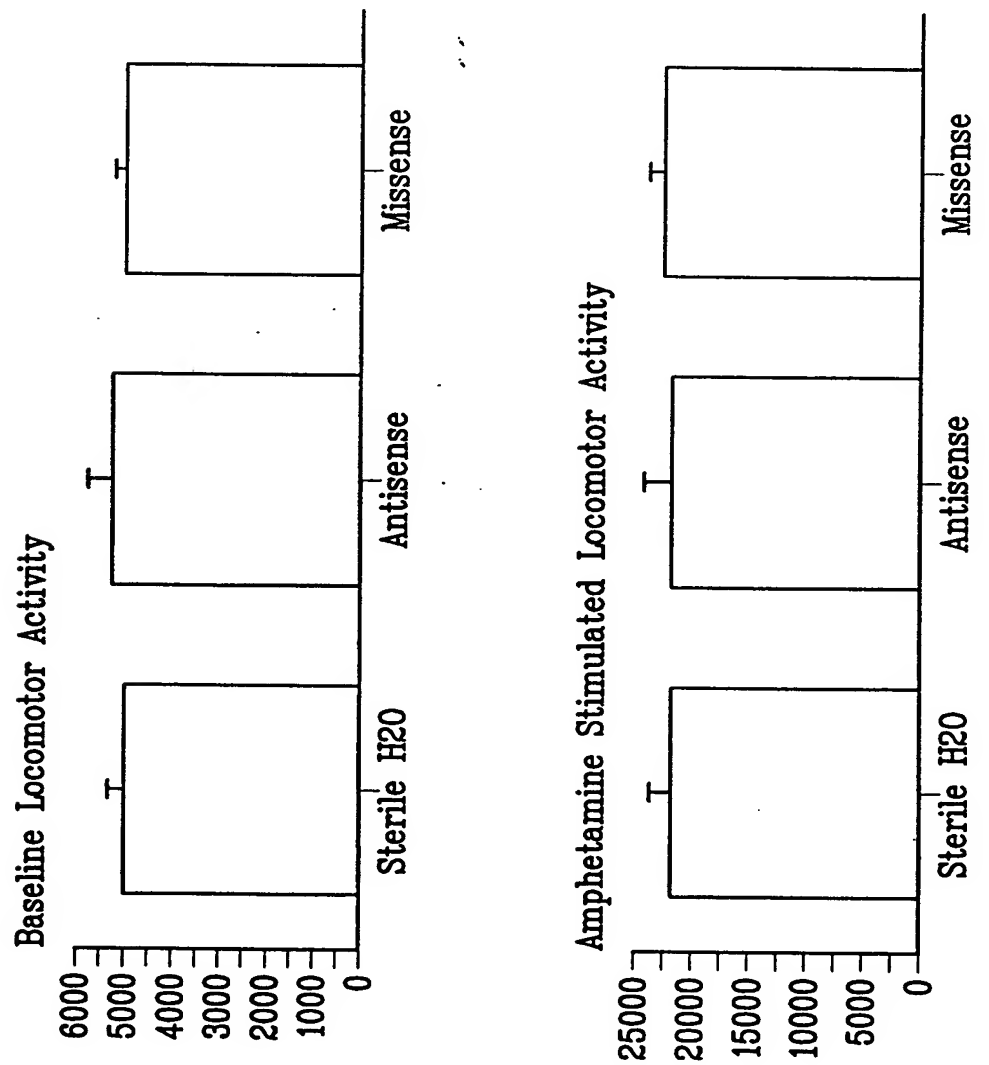


FIG. 16



21/34

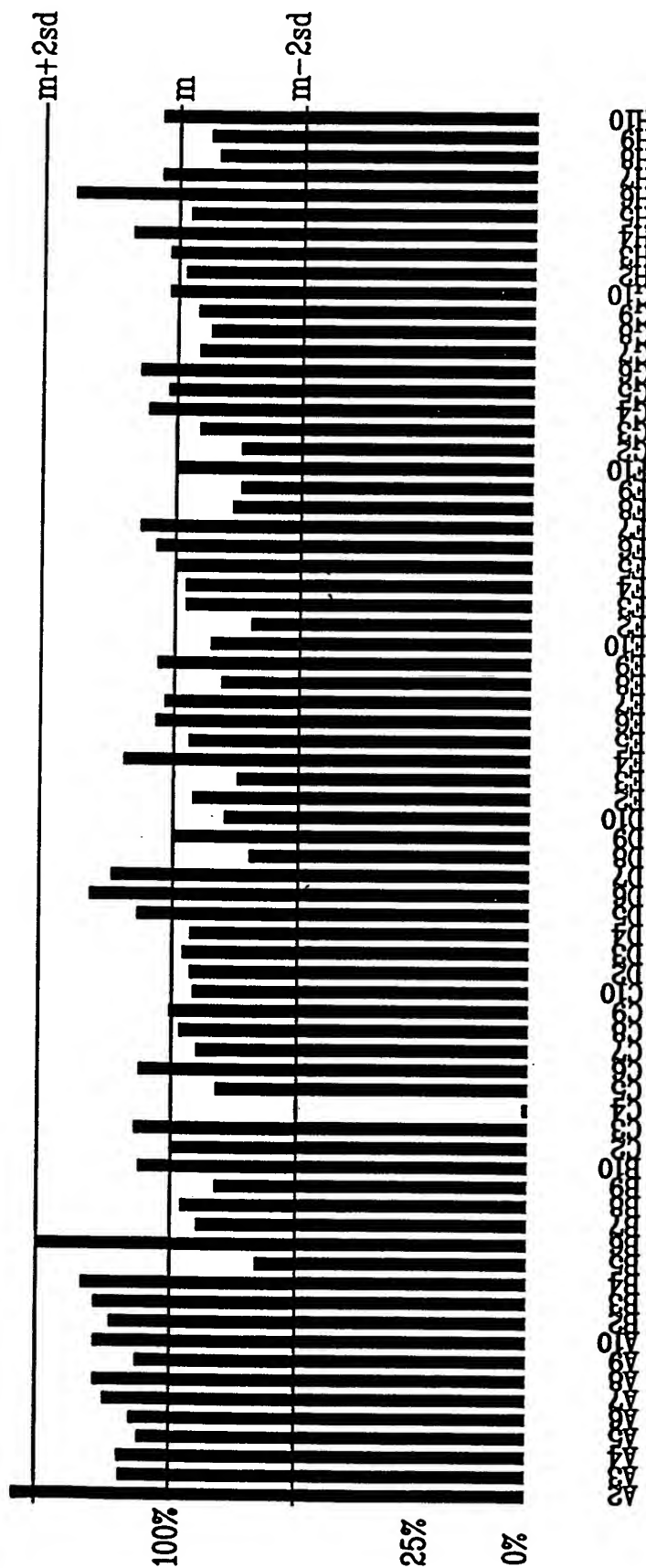
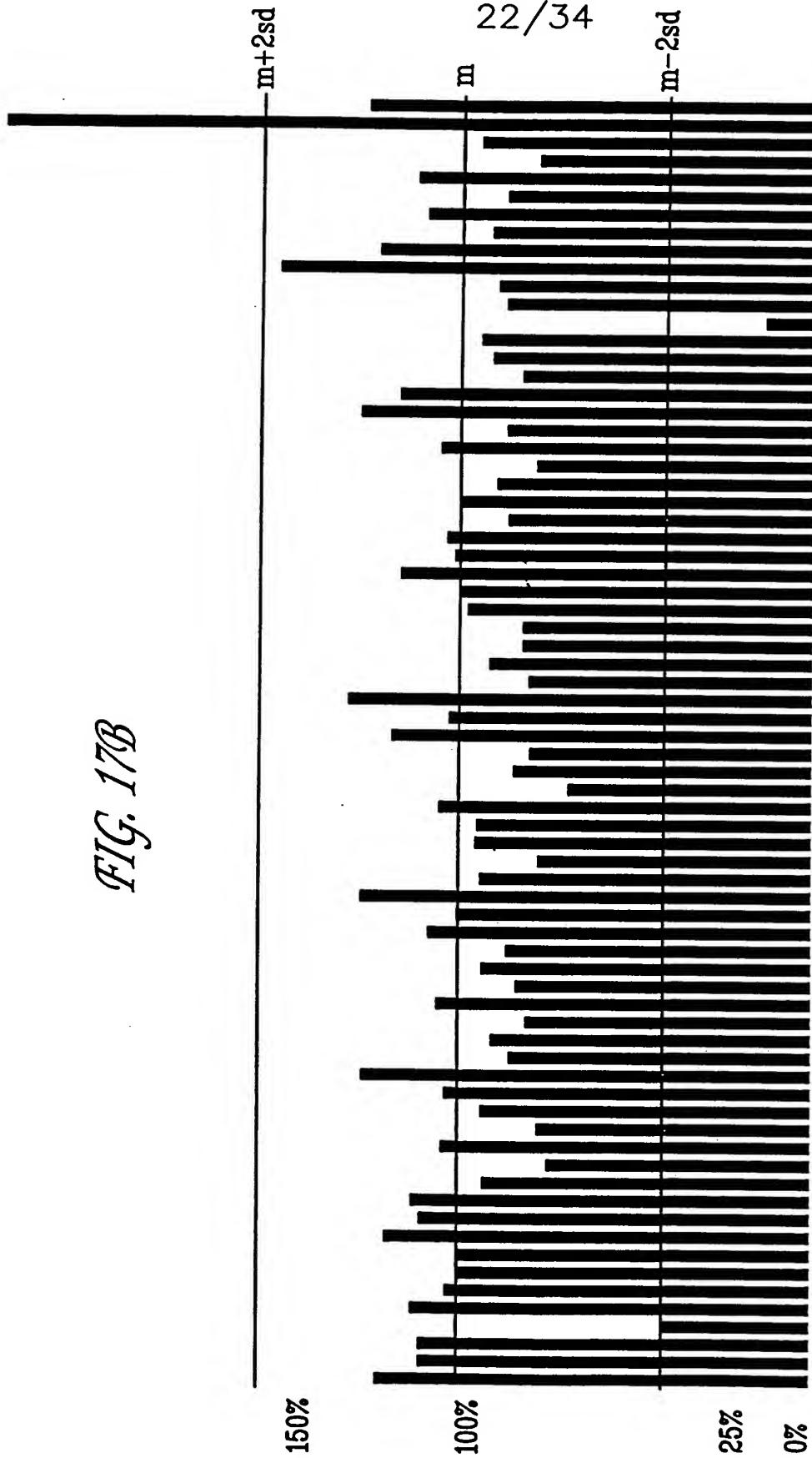


FIG. 17A

FIG. 17B



23/34

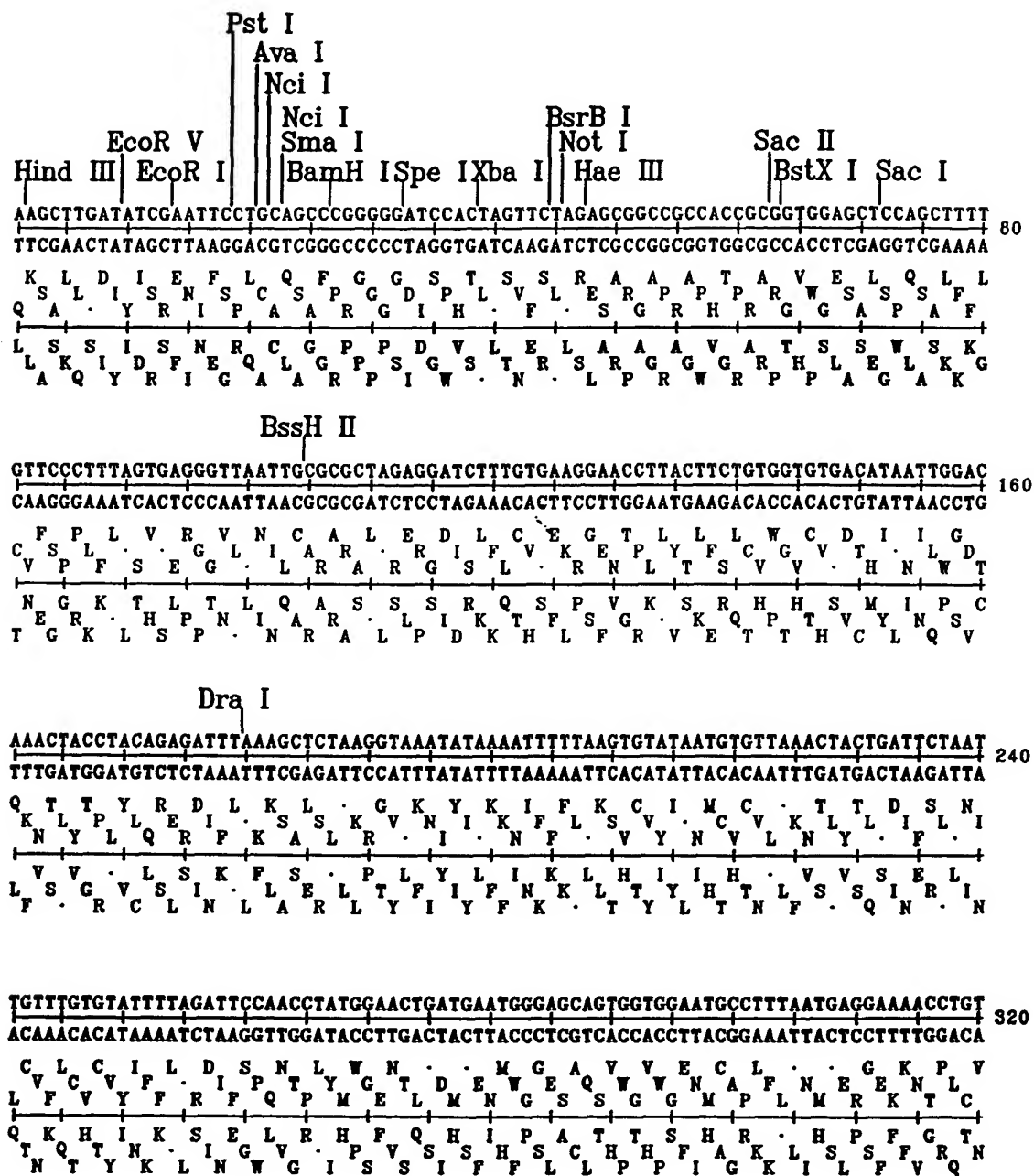


FIG. 18A

24/34

TTTGCTCAGAAGAAATGCCATCTAGTGATGATGAGGCTACTGCTGACTCTCAACATTCTACTCCTCCAAAAAGAAGAGA 400
AAACGAGTCTTCTTTACGGTAGATCACTACTCTCCGATGACGACTGAGAGTTGTAAGATGAGGAGGTTTTTCTTCTCT
L L R R N A I G Y C L S T F Y S S K K E E
F C S E E M P S S D D E A L L L T L N I L L Q K K R R E
K S L L F A M H H H P Q Q S E V N E E L F S S F
K Q E S S I G D L S S S A V A S E C E V G G F F L L S
K A F F H W R T I I L S S S V R L M R S R W F F L L S

Sty I

AAGGTAGAAGACCCCAAGGACTTTCCTTCAGAATTGCTAAGTTTTTGAATCATGCTGTGTTTAGTAATAGAAGTCTTGC 480
TTCCATCTTCTGGGGTTCCTGAAAGGAAGTCTTAACGATTCAAAAACTCAGTACGACACAAATCATTATCTTGAGAAGC
K G R R P Q G L S F R I A K F F E S C C V N S C
K V E D P K D F P S E L L S F L S H A V F S N R T L L A
R K T P R T F L Q N C V F V M L C L V I E L L
F L L G W P S E K L I A L N K S D H Q T Y Y F E R Q
L T S F V G L S V K G E S N S L K K L A T H N L L V S R A
L Y F V G L S V K R F Q T K Q T M S H K T I S S K S

TTGCTTTGCTATTTACACCACAAAGGAAAAAGCTGCACTGCTATACAAGAAATATGGAAAAATATTCTGTAACCTTTA 560
AACGAAACGATAAATGTGGTGTTCCTTTTTCGACGTGACGATATGTTCTTTTAATACCTTTTTATAAGACATTGGAAT
L L C Y L H H K G K S C T A I Q E N Y G K I F C N L Y
L C F A I Y T T K E K A A L L Y K K I M E K K Y S V T F L
L A L L F T P Q R K K L H C Y T R K L W K N I L P L
K S Q K C W L P F L Q V A I C S F P F I N Q L R I
Q K A S I V V F S F A A S S Y L F I I S F F Y E T V K I
A K S N V G C L F F S C Q V L F N H F F I R Y G K I

Asel

TAAGTAGGCATAACAGTTATAATCATAACTACTGTTTTTCTTACTCCACACAGGCATAGAGTGTCTGTATTAATAAC 640
ATTCATCCGTATTGTCAATATTAGTATTGTATGACAAAAAGAATGAGGTGTGTCCTATCTCACAGACGATAATTATG
K A Q L S H T V F S Y S T Q A S V C Y
I S R H N S Y N H N I L F F L T P H R H R V S A I N N
V G I T V I I Y Y C F F L L H T G I E C L L L I T
L Y A Y C N Y L D Y C V T K E E V C A Y L T Q A I L L
Y T P M V T I I M V Y S N K K K S W V P M S H R S I N I V

Rsa I

TATGCTCAAAAATTGTGTACCTTTAGCTTTTTAATTTGTAAAGGGGTTAATAAGGAATATTTGATGTATAGTGCCTTGAC 720
ATACGAGTTTTTAACACATGGAAATCGAAAAATTAACATTTCCTTAATAACTACATATCACGGAAGT
L C S K I V Y L L F N L R G G I F D Y C L D
Y A Q K L C T P L S F L I C K G V N K E Y L M Y S A L T
M L K N C V P L A F F V K G L I R N I C I V P
H E F I T Y R S K L K Y L P Y P I N S T Y H R S V
I A L F N H V K L K K I Q L P T L L S Y I K I Y L A K V
I S L F Q T G K A K N T F P N I L F I Q H I T G Q V S

FIG. 18B

25/34

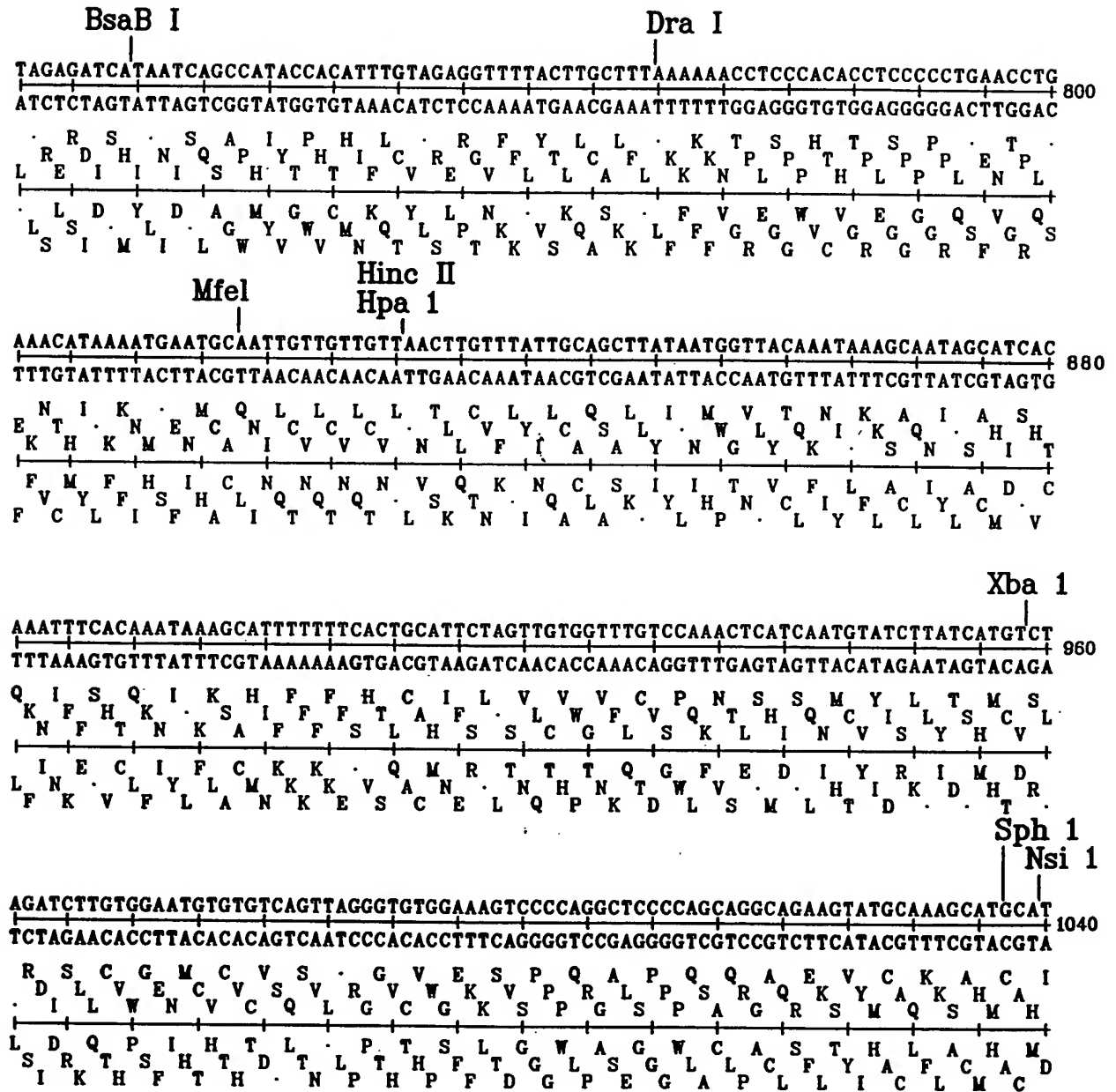


FIG. 18C

26/34

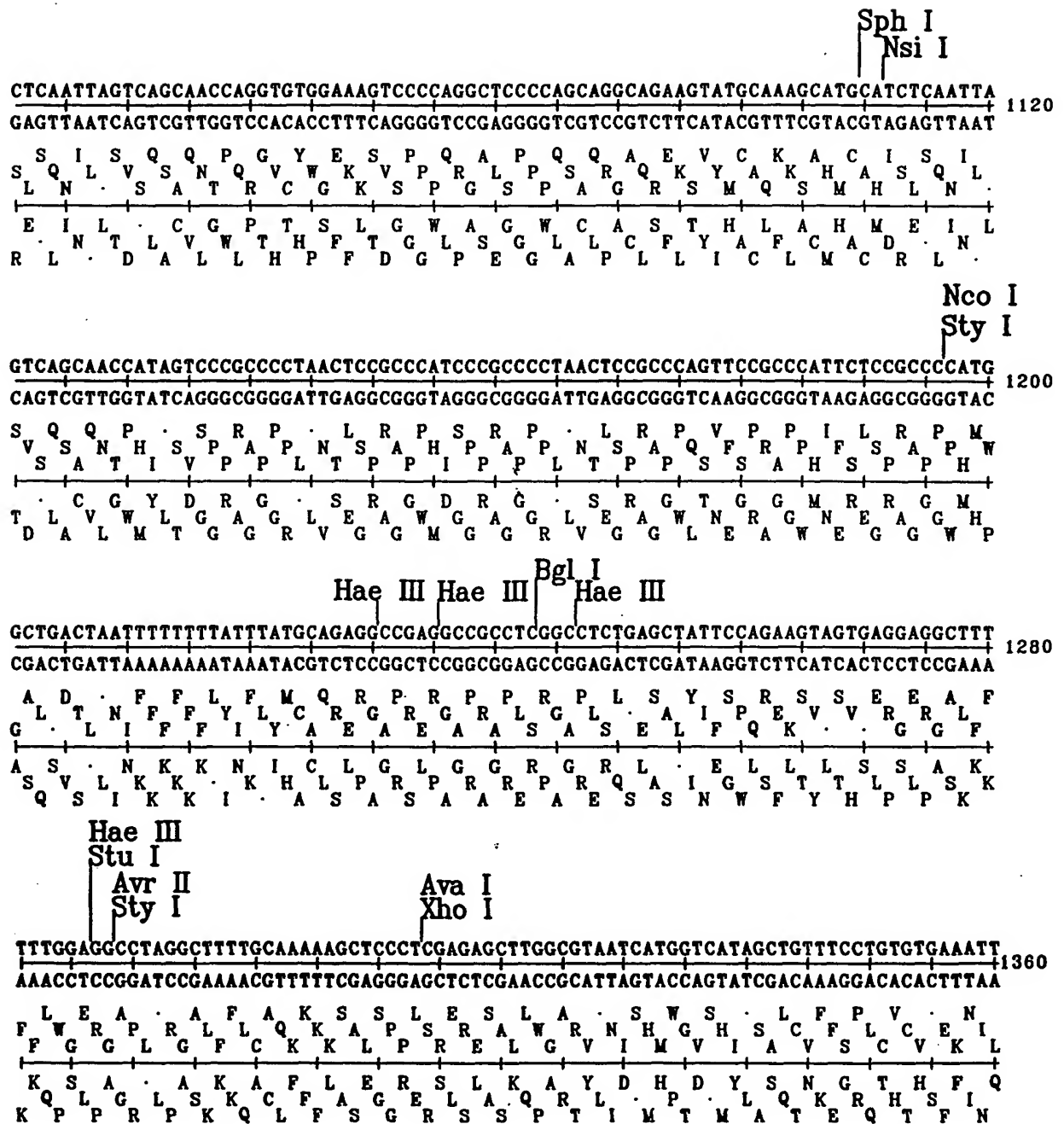


FIG. 18D

27/34

BsrB I

GTTATCCGCTCACAAATCCACACAACATACGAGCCGGAAGCATAAAGTGTAAGCCTGGGGTGCCTAATGAGTGAGCTAA 1440
CAATAGGCGAGTGTTAAGGTGTGTTGTATGCTCGGCCTTCGTATTTACATTTDGGACCCACGGATTACTCACTCGATT
C Y P L T I P H N I R A G S I K C K A W G A V S A N
V I R S H N S T Q H T S R K H K V S L G C L M S E L
L S A H N S T Q H T S R K H K V S L G C L M S E L
T N D A L E V C C V L R F C L T Y L R P H R I L S S I V

Asel

Pvu II Asel Hae III

CTCACATTAATTGCGTTGCGCTCACTGCCCGCTTTCCAGTCGGGAAACCTGTCGTGCCAGCTGCATTAATGAATCGGCCA 1520
GAGTGTAATTAACGCAACGCGAGTGACGGGCGAAAGGTCAGCCCTTTGGACAGCACGGTCGACGTAATTACTTAGCCGGT
L T L I A L R S L P A F Q S G N L S C Q L H I G Q
S H I N C R C A L T A R F P V G K P V V P A A L M N R P
T H I N C R C A L T A R F P V G K P V V P A A L M N R P
S V N I A N R E S G A K W D P F R D H W S C H I P W L
E C M L Q T A S V A R K G T P F G T T G A A N I F R G

Sap I

ACGCGCGGGGAGAGGCGGTTTGGCGTATTGGGCGCTCTTCCGCTTCTCGCTCACTGACTCGCTGCGCTCGGTCGTTCCGGC 1600
TGCGCGCCCTCTCCGCCAAACGCATAACCCGCGAGAAGGCGAAGGAGCGAGTGACTGAGCGACGCGAGCCAGCAAGCCG
R A G R G G L R I G R S S A S S L T D S L R S V V R
N A R G E A V C V L G A L P L P R S L T R C A R S F G
T R G E R R F A Y W A L F P L A H L A A L G R S A
R A P L P P K R I P R E E A E E S V S E S R E T T R S
V A R P S L R N A Y Q A S K R K R A Q S A A S P R E A

BsrB I

TGCGGCGAGCGGTATCAGCTCACTCAAAGGCGGTAATACGGTTATCCACAGAATCAGGGGATAACGCAGGAAAGAATG 1680
ACGCCGCTCGCCATAGTCGAGTGAGTTTCCGCCATTATGCCAATAGGTGTCTTAGTCCCCTATTGCGTCCTTTCTTGAC
L R R A V S A H S K A V I R L S T E S G D N A G K N M
C A G E R Y Q L T Q R G N Y G Y P Q N Q G I T R Q E R H C
L A A S G I S S L K G G N T V I H R I R G R R K E H C
Q P S A T D A E F A T I R N D V S D P S L A P F F M
A A L P I L E S L P P L V T I W L I L P I Y R L F S C T

FIG. 18E

28/34

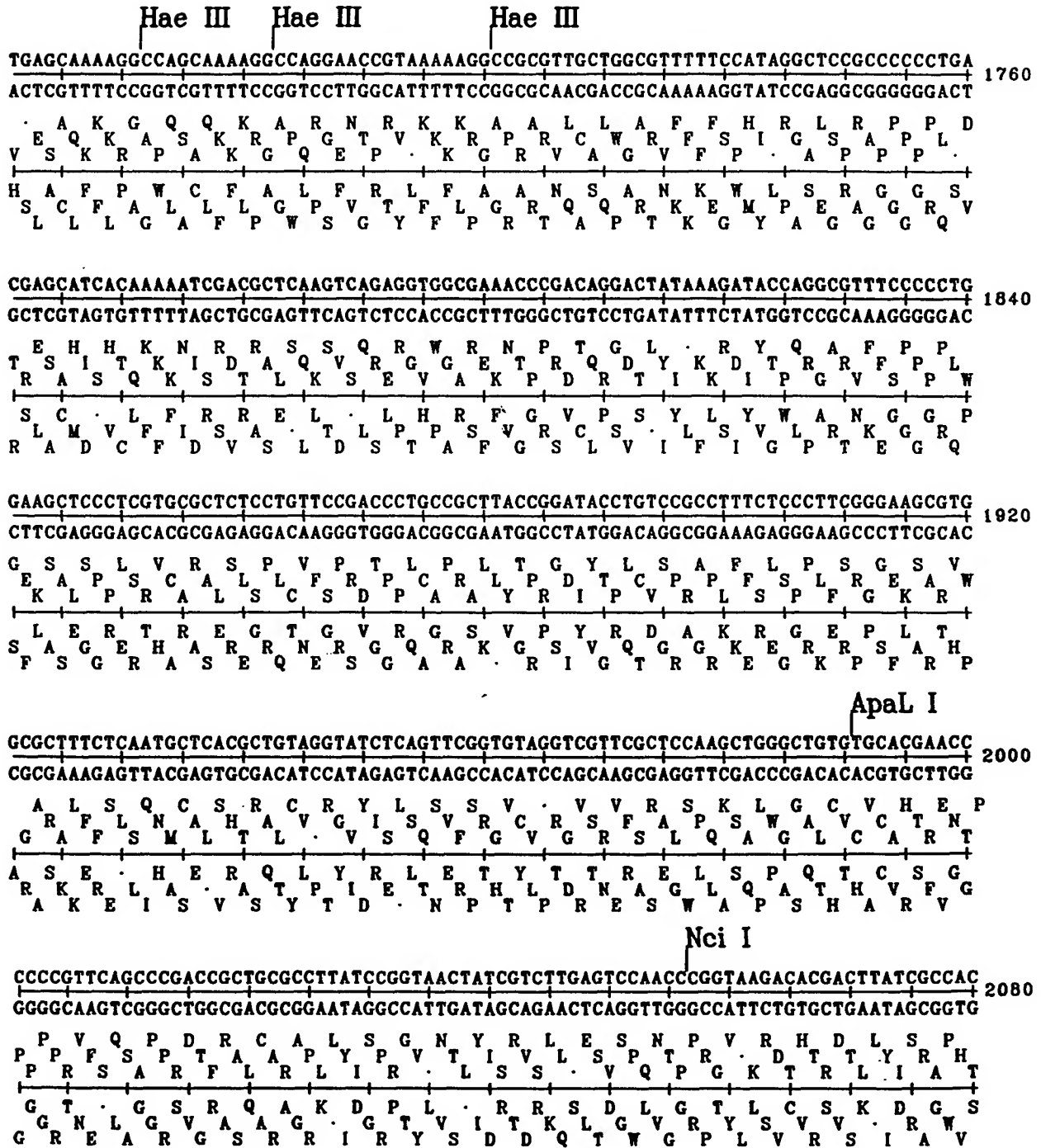


FIG. 18F

29/34

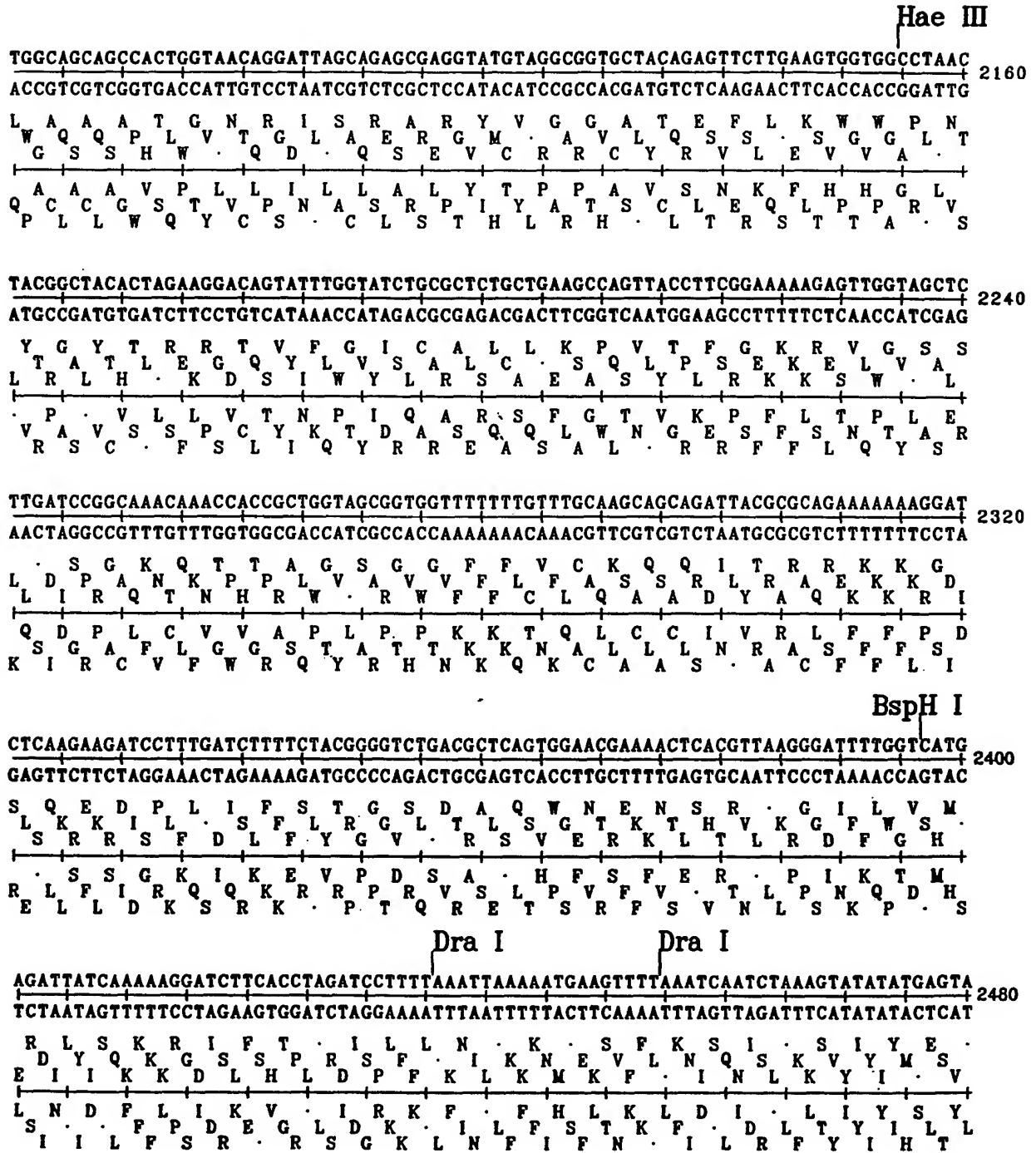


FIG. 18G

30/34

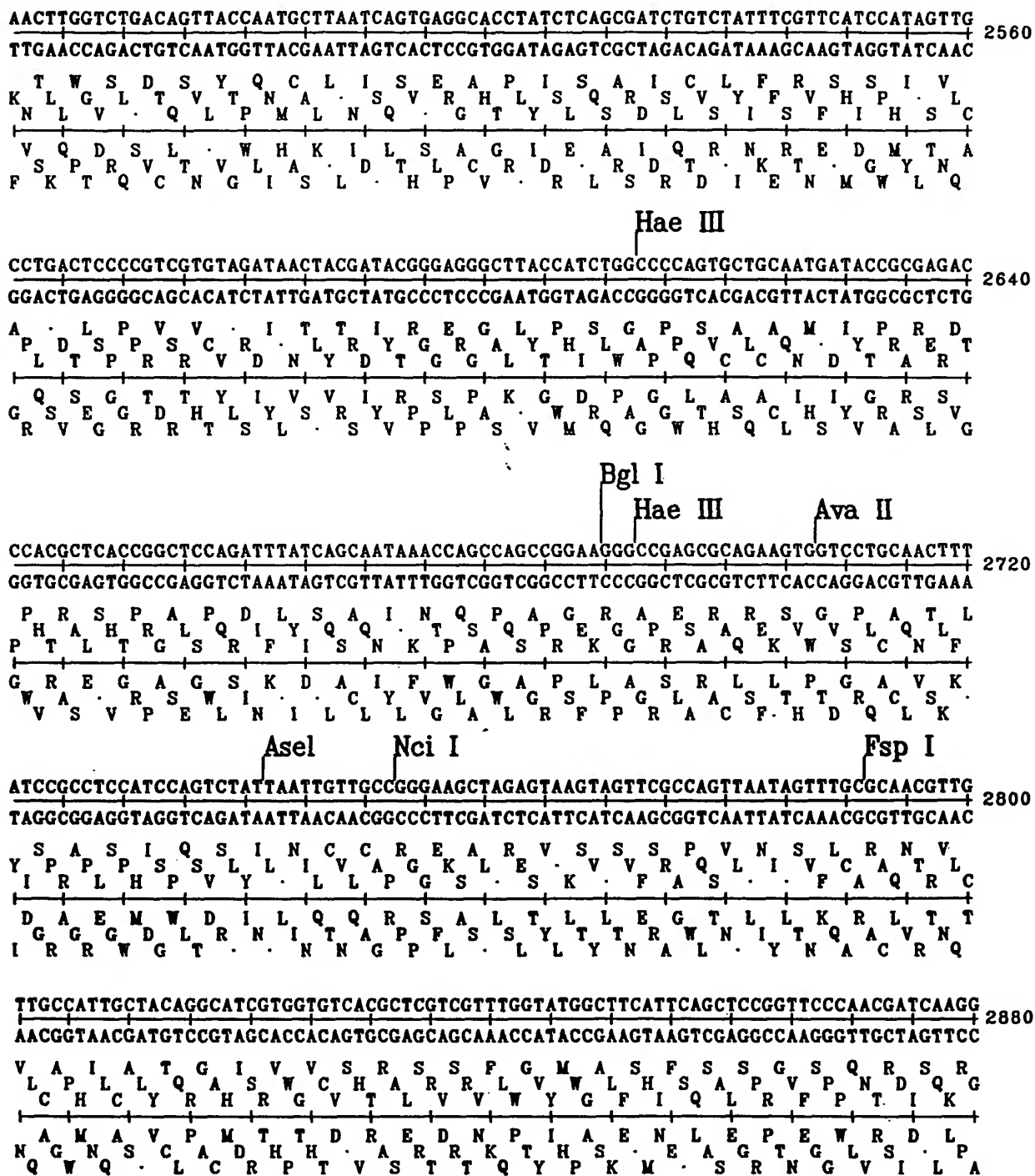


FIG. 18H

31/34

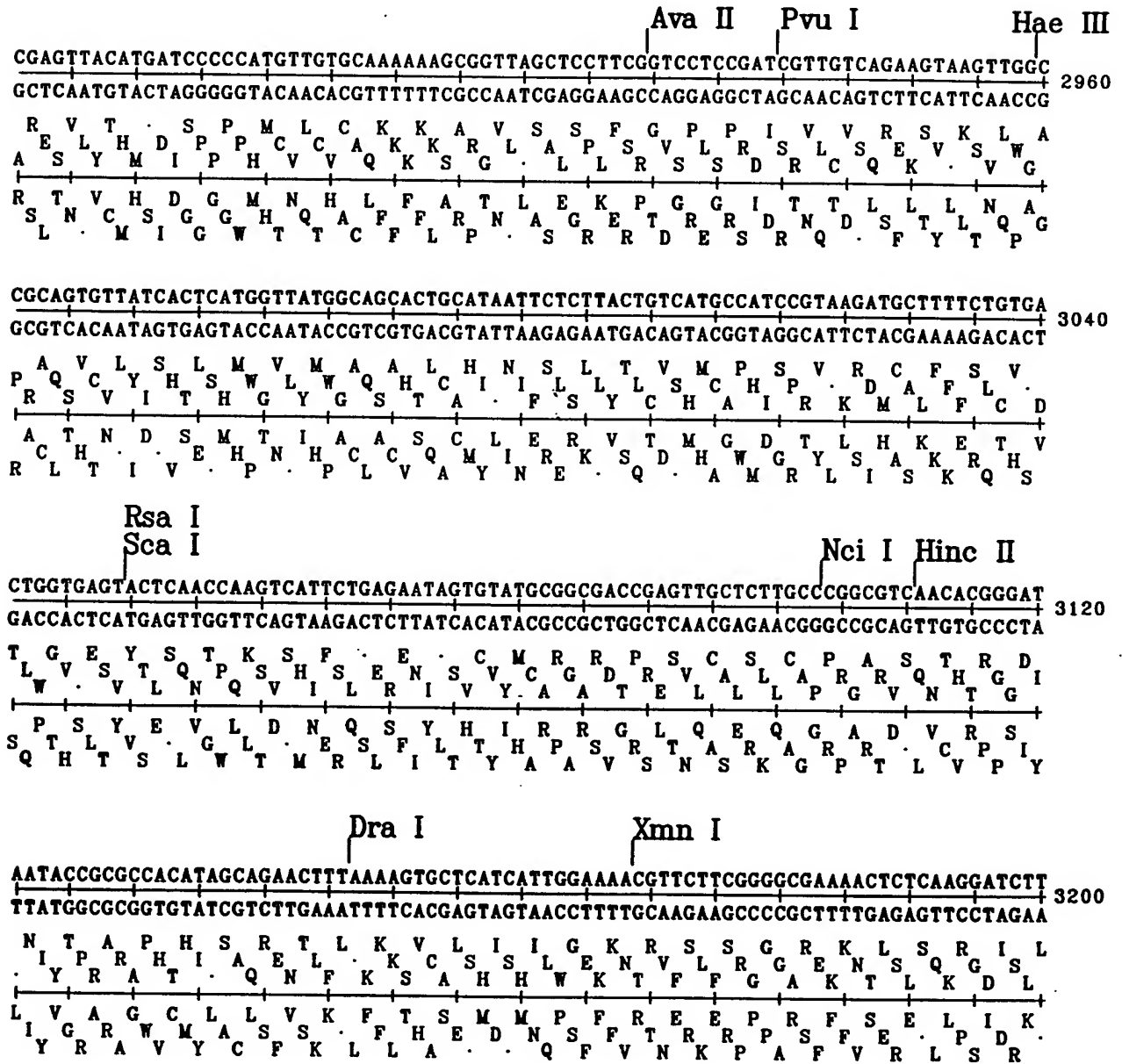


FIG. 18I

32/34

Apal I

ACCGCTGTTGAGATCCAGTTCGATGTAACCCACTCGTGACCCCACTGATCTTCAGCATCTTTTACTTTACCCAGCGTTT 3280
TGGCGACAACCTCTAGGTCAAGCTACATTGGGTGAGCACGTGGGTGACTAGAAAGTCGTAGAAAATGAAAGTGGTCGCAAA
P L L R S S S M P T R A P N S S A S F T F T S V
Y R C D P V R C N P L V H P T D L Q H L F L S P A F
T A V E I Q F D V T H S C T Q L I F S I F Y F H Q R F
G S N L D L E I Y G V R A G L Q D E A D K V K V L T E
V R Q T S I G W N S T V W E H V W S I K L M K K W R K

CTGGGTGAGCAAAAACAGGAAGGCAAAATGCCGCAAAAAGGGAATAAGGGCGACACGGAAATGTTGAATACTCATACTC 3360
GACCCACTCGTTTTGTCTTCCGTTTTACGGCGTTTTTCCCTTATCCCGCTGTGCCTTTACAACCTTATGAGTATGAG
S G A K T G R Q N A A K K G I R A T R K C I L I L
L G E Q K N R K A K C R K K R G N K G R D T E N V L E Y S Y S
W V S K N R K A K C R K K R G N K G R D T E N V L E Y S Y S
P H A F V P L C F A A F F P I L A V R F H Q I S M S
R P S C F C S P L I G C F L S Y P R C P F T Q I Y E Y E
Q T L L F L F A F H R L F P F L P S V S I N F V V E R

Hinc II

Spe I Asel

TTCCTTTTTCAATATTATTGAAGCATTATCAGGGTTATTGTCTCATGCGCGTTGACATTGATTATTGACTAGTTATTAA 3440
AAGGAAAAAGTTATAATAACTTCGTAAATAGTCCCAATAACAGAGTACGCGCAACTGTAACATAAATACTGATCAATAATT
F L F Q Y Y S I Y Q G Y C L M R V D I D Y L V I N
L P F S N I I E A F I S R V I V S C A L T L I L D L Y L
K R K Y Q L M P Q R M R T S V M S I S T N I L
G K E I N N F C K D P N N D A R Q C Q N N V L N I

Hae III

Bgl I

TAGTAATCAATTACGGGGTCATTAGTTCATAGCCCATATATGGAGTTCGGCGTTACATAAATTACGGTAAATGGCCCGCC 3520
ATCATTAGTTAATGCCCCAGTAATCAAGTATCGGGTATATACCTCAAGGCGCAATGTATTGAATGCCATTTACGGGGCGG
S N Q L R G H F I A H I W S S A L H N L R M A P
I V I N Y G V I S F I P I Y G V P R Y I T Y G K W P A
L S I T G S L V H S P Y M E F R V T L T V N G P P
L L N R P T M N M A W I H L E A N C L K R Y I A R R
Y Y D I V P D N T L G Y I S N R T V Y S V T F P G A

FIG. 18J

33/34

Aat II
TGGCTGACCGCCCAACGACCCCGCCCATTTGACGTCAATAATGACGTATGTTCCCATAGTAACGCCAATAGGGACTTTCC 3600
ACCGACTGGCGGGTTGCTGGGGCGGGTAAGTGCAGTTATTACTGCATACAAGGGTATCATTGCGGTTATCCCTGAAAGG
L A D R P T T P A H R V Q N N D R V C S P H S N A Q R G L S P
W L T A P Q N D P P P L T S I M T Y V P I V T P I G T F P
G P P N D P R P L T S I M T Y V P I V T P I G T F P
A S R G V V G A W Q R Y H R I N G Y Y R W Y P S K E
Q S V A W R G G G M S T L L S T H E W L L A L L S K G
P Q G G L S G R G N V D I I V Y T G M T V G I P V K W

Aat II Bgl I Rsa I Nde I Rsa I
ATTGACGTCAATGGGTGGACTATTTACGGTAAACTGCCCACTGGCAGTACATCAAGTGTATCATATGCCAAGTACGCCC 3680
TAACTGCAGTTACCCACCTGATAAATGCCATTGACGGGTGAACCGTCATGTAGTTCACATAGTATACGGTTCATGCGGG
I D V N G W T I Y G K L P T W Q Y I K C I I C Q V R P
L T S M G G L F T V N C P L G S T S K V S Y A K Y A P
H R Q W V D Y L R T A H L A V H Q V Y H M P S T P
M S T L P H V I P L S G V Q C Y M L H I M H W T Y R G
N V D I P P S N V T F V A G S P L V D L T D Y A L Y A G
Q R H T S K R Y V A W K A T C T Y I G L V G

Aat II Hae III Bgl I Rsa I
CCTATTGACGTCAATGACGGTAAATGGCCCGCCTGGCATTATGCCCACTACATGACCTTATGGGACTTTCTACTTTGGCA 3760
GGATAACTGCAGTTACTGCCATTACCGGGCGGACCGTAATACGGGTTCATGTACTGGAATACCCTGAAAGGATGAACCGT
L L T S M T V N G P P G I M P S T P Y G T F L L G
P Y D R Q R M A R L A L C P V H D L M G L S Y L A
P I D V N D G K W P A W H Y A Q Y M T L W D F P T W Q
R N V D I V T F P G G P M I G L V H G P V K R S P L
G I S T L H S P L H G A Q A C N H G T C S R I P S K E V K A C

BsaA I Nco I Rsa I
Rsa I SnaB I Sty I Rsa I
GTACATCTACGTATTAGTCATCGCTATTACCATGGTGTGCGGTTTTGGCAGTACATCAATGGGCGTGGATAGCGGTTTG 3840
CATGTAGATGCATAATCAGTAGCGATAATGGTACCACTACGCCAAAACCGTCATGTAGTTACCCGCACCTATCGCCAAAC
S T S T Y S S L L P W C G F G S T S M G V D S G L
V H L R I S H R Y Y H G D A V L A V H Q W A W I A V
Y I Y V L V I A I T M V M R F W Q Y I N G R G R F
V D V Y D D S N G H H H P K P L V D I P T S L P K
T Y C R R I L R A I V M T I R N Q C Y M L P R P Y R N S

FIG. 18K

34/34

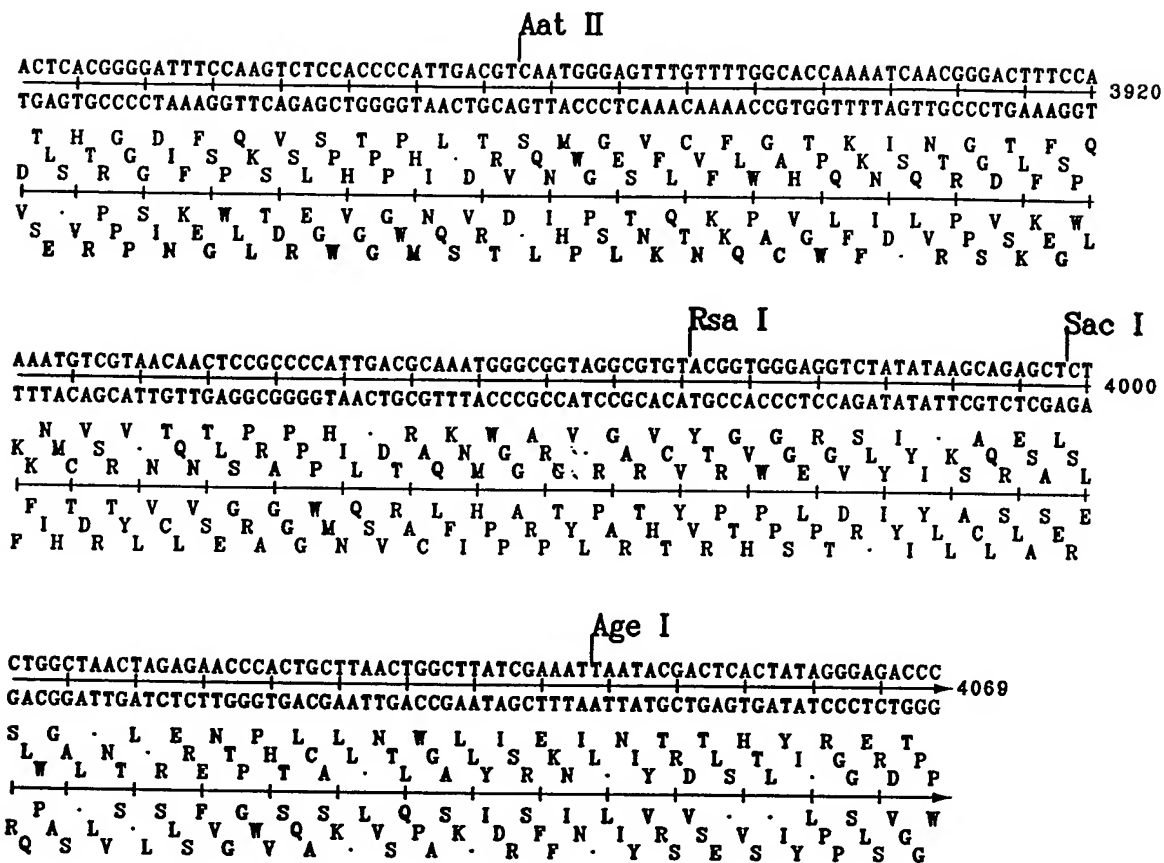


FIG. 18L